Account Management

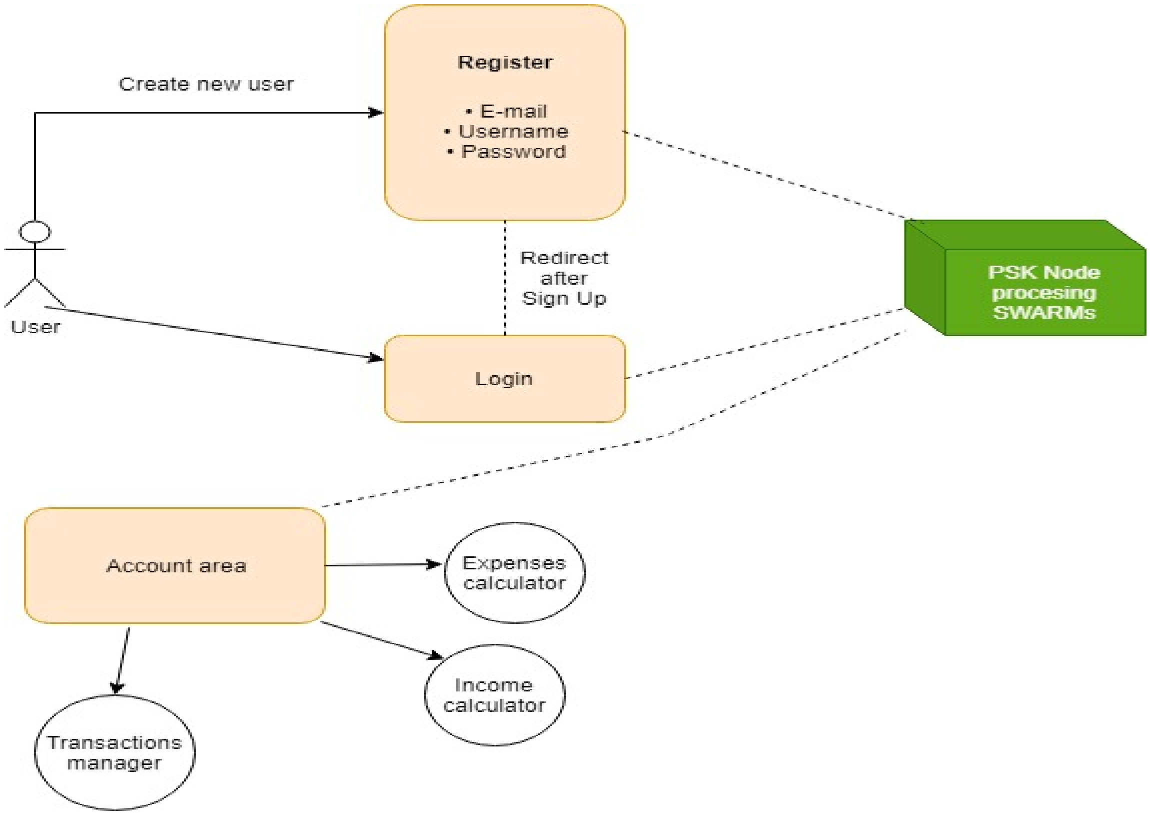
- Client application for Private Sky backend –

This application uses *Private Sky's* **SWARM**s to provide a solution for the client that offers the possibility to create a personal account, log in to it and manage and track the balance of the owned account, through incomes and expenses.

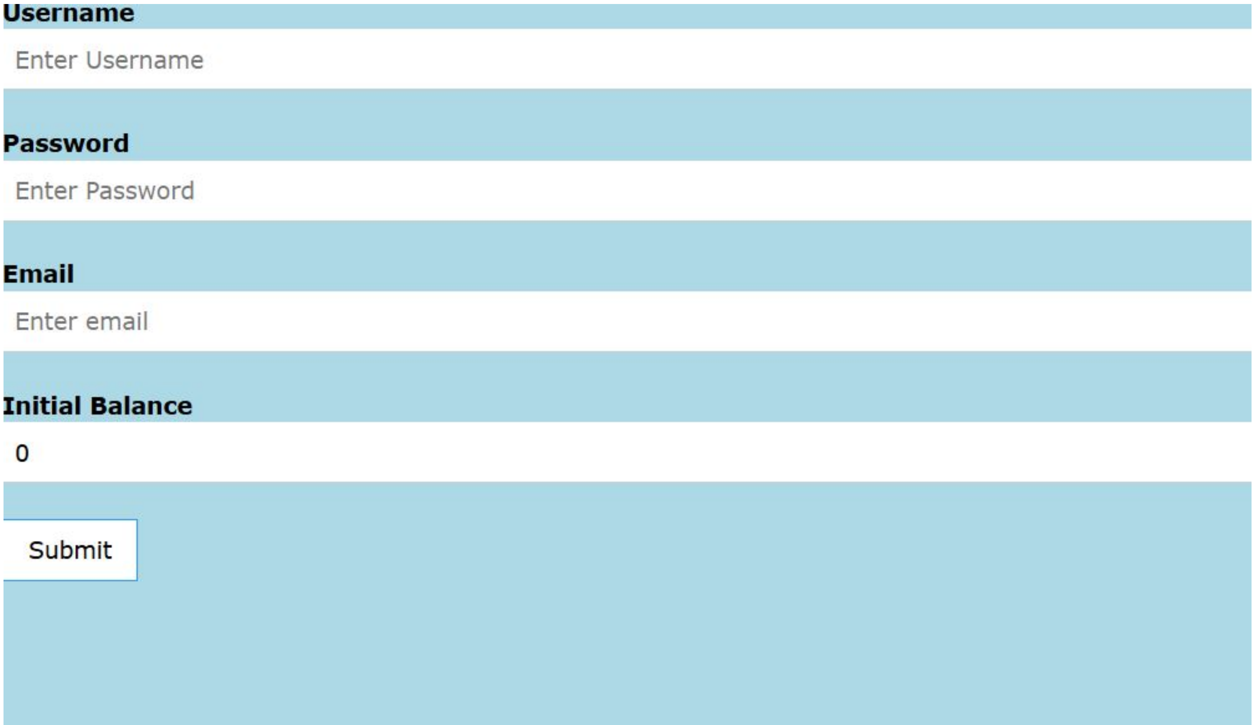
These functionalities are achieved through the created swarms that are integrated into *Private Sky* as extension libraries. This way our client application uses the PSK back-end.

This client app also offers the possibility to transfer different currency between multiple accounts.

Below is an architectural diagram representing the main components of the client application.



Register page:



Username

Enter Username

Password

Enter Password

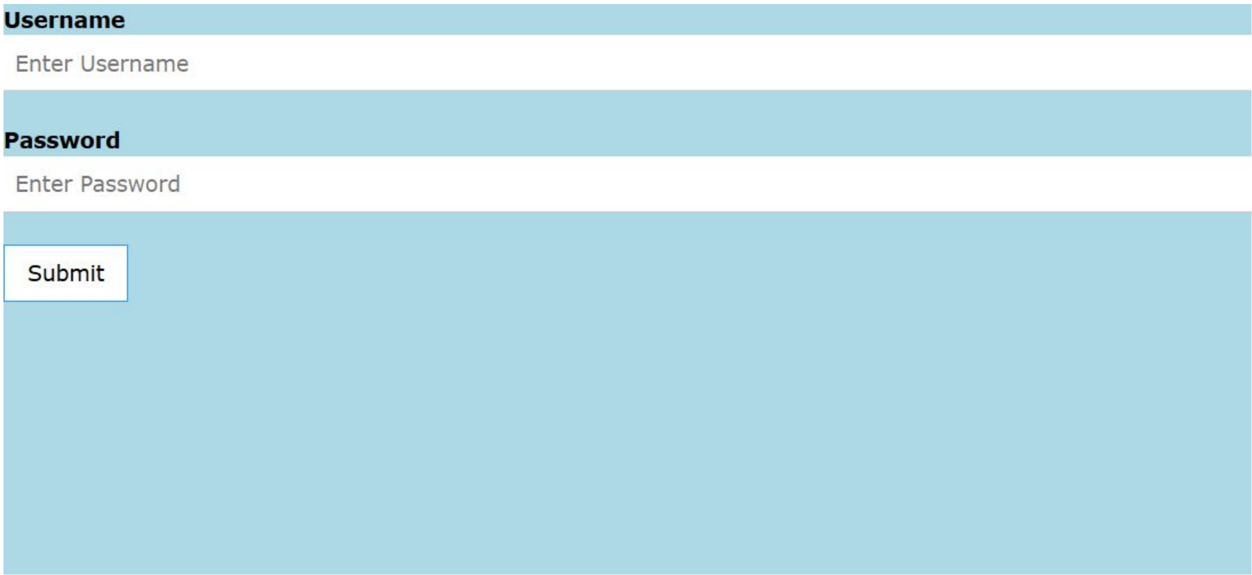
Email

Enter email

Initial Balance

0

Index / Login page:



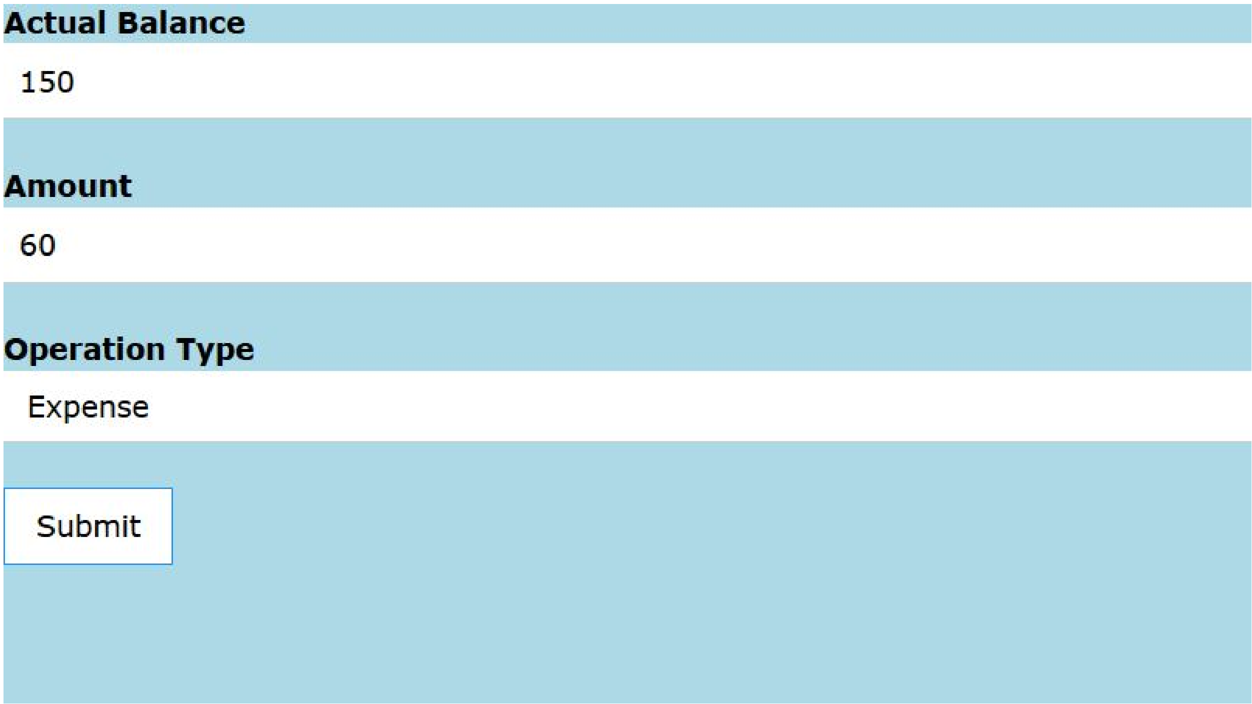
Username

Enter Username

Password

Enter Password

Account page – before expense operation:



Actual Balance

150

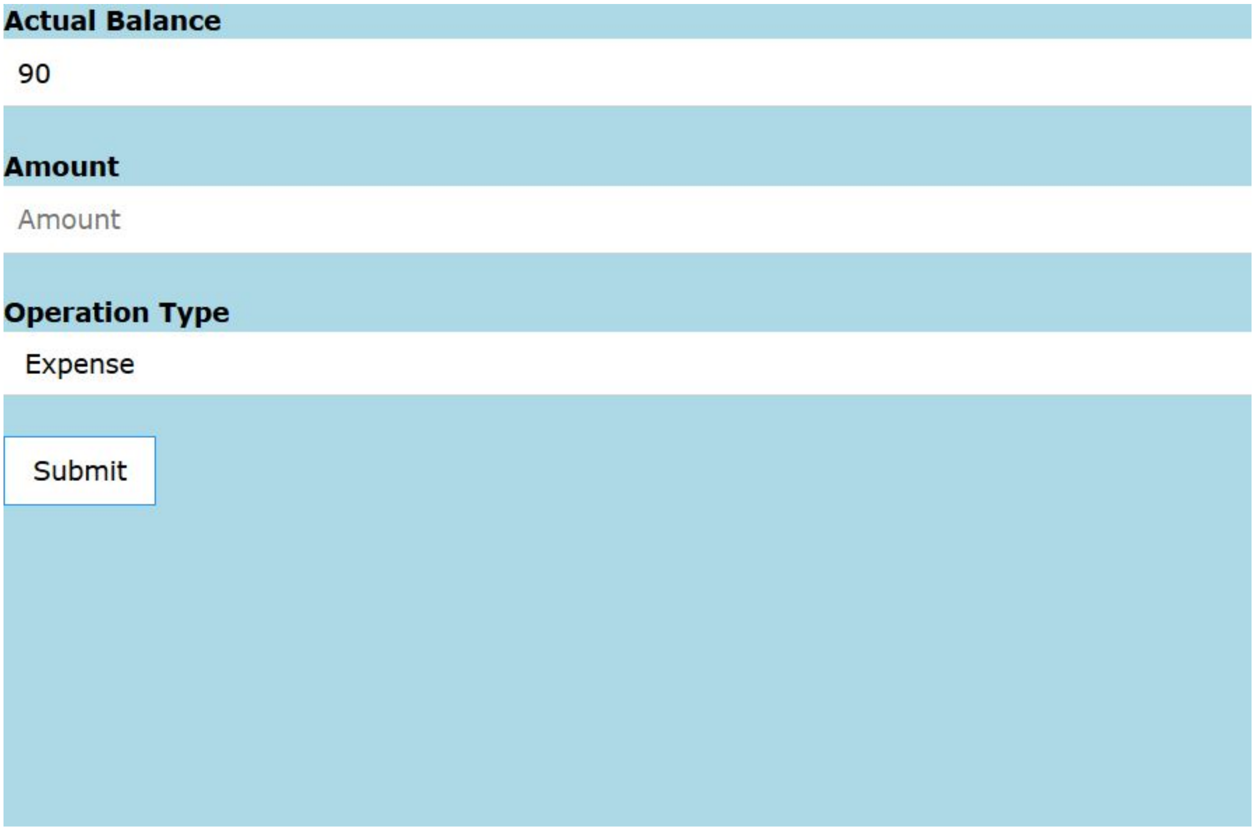
Amount

60

Operation Type

Expense

Account page – after expense operation:



Actual Balance

90

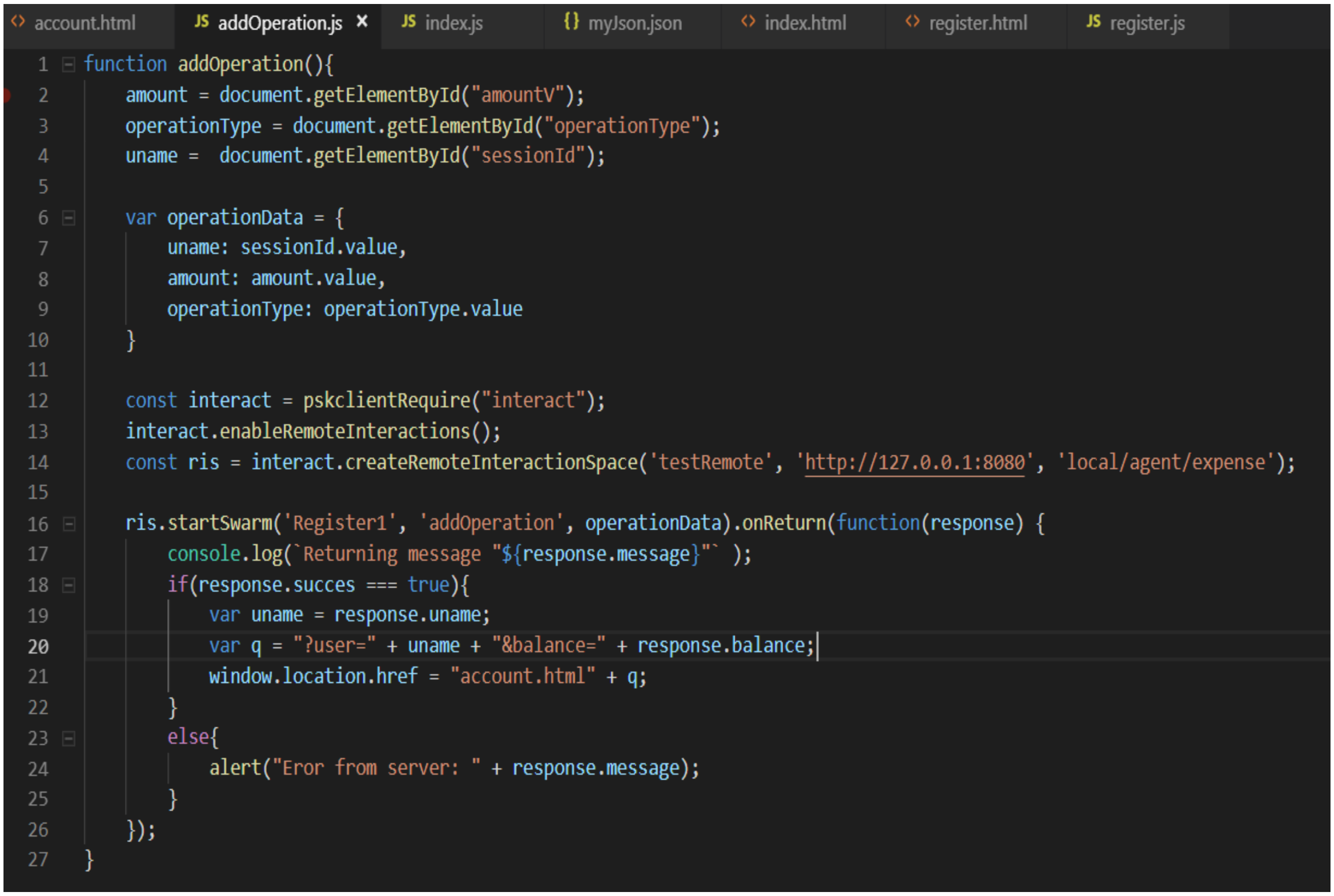
Amount

Amount

Operation Type

Expense

Code processing the account balance (incomes / expenses) – *addOperation.js*:



```javascript
function addOperation(){
    amount = document.getElementById("amountV");
    operationType = document.getElementById("operationType");
    uname =  document.getElementById("sessionId");

    var operationData = {
        uname: sessionId.value,
        amount: amount.value,
        operationType: operationType.value
    }

    const interact = pskclientRequire("interact");
    interact.enableRemoteInteractions();
    const ris = interact.createRemoteInteractionSpace('testRemote', 'http://127.0.0.1:8080', 'local/agent/expense');

    ris.startSwarm('Register1', 'addOperation', operationData).onReturn(function(response) {
        console.log(`Returning message "${response.message}"` );
        if(response.succes === true){
            var uname = response.uname;
            var q = "?user=" + uname + "&balance=" + response.balance;
            window.location.href = "account.html" + q;
        }
        else{
            alert("Eror from server: " + response.message);
        }
    });
}
```